REPORT

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DEVELOPMENT OF MOUNT ALU

BY

A. E. MIRAMS, Esq., F.S.L. FR.S.L., Consulting Surveyor to the Covernm: " : Nombay



GOVERNMENT OENTRAL PRESS 1924



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REPORT ON DEVELOPMENT OF MOUNT ABU

BY A E MIRAMS, Isq, FSI FRSI, Consulting Surveyor to the Government of Bombay

This report is for various reasons not as comprehensive as I should have hised but a great deal of research work has been devoted to the report. However it is not up full as I should have liked, owing to a unity of execurstances over which I have hisd no control.

2 The funds at the disposal of the Rapputana Agency were very restricted but this particular fact has not maternally affected the treat 1 and of the subject as regards the particular matters with which the r port itself is concerned. The obsence of funds has prevented ma from presenting the report with pointed matter and plans as I should like to have done. A report in manuscript, when dealing with a variety of subjects as comprehended by a Development Scheme, is always unsatisfactors.

- 3 Generally my remarks have been divided into five beads -
 - (1) Traffic Communications
 - (2) Building sites
 - (3) Improvement of bazear area
 - (4) Brief notes on water-supply
 - (5) Summary

Œ

- 4 Mount Abu as hill staton studied 4 000 feet above the seal level I to frequented by officials and readents of the Raymotana States, and to a certain extent by others who find their normal occupation in Almedylad and other parts of Gazerat and to a still less extent on crimparatively rare occasion by people turing as far away as Bombry It is the Headquarters of the Raymotana Agency and a holiday resort of muy of the Kinpatana Preme
- 5 In conformation it may be said to partiable consewhat of the nature of a semi plateau broken up by a series of preceptions hills, with the result that there is a compartisety small proportion of land naturally available as building sites. Roughly, the hill may be said to have an all over area in to far as that part, which is said to be industable is concerned, of 2 000 acros.
- 6 A detuied description of the hill is contained in the Graretteer and it is neither necessary nor describle to recapitalite or to altempt to enlarge upon such description in a report of this nature. Suffice it to say that except during the ramy season which extends from the

maddle of June te the middle of October, the hill is admirably suited for residential purposes throughout the year. It goes without sying that from a commercial point of view part from the benefits conferred, by its excellent elimato, it is negligible but it is a magnificant hilly station with peculiar and unrivalled scenary. Furthermore, it is not difficult of access as it can be reached by motor from Abu Road station, which is only 17 miles distant. The bull is provided with an excellent club known as the Raiputena Clob, quite a good cricket ground and a first class polo ground, and there is moon for improved hotel accommode of such roads as would be suitable for vehicular traffic, and the powers that be went to attempt to provide for such traffic apart from the facilities given to motors running to and from various parts of the hill on the strival and departure of visitors.

7 When treating of traffic improvements in this report, I have supported the proposals to construct two new main roads, which I refer to m the report as the "Pilgrim Road and the Four mile Chukkar Road ' for want of a better known description Both these roads will of course be suitable for the usual vehicular traffic as well as for motor traffic travelling not more than an average of 15 to 18 miles per hour and it will be a matter for administration as to whether these roads together with the main Abu Road should be allowed to be so used Only those roads within the realms of practical politics have been at ggested, and generally speaking the cost of such roads will be reflected 11 the increased value of the lands sold. This remark applies with particular emphasis to branch roads giving access to new building sites In the case of the Pilgrim Road and the Four mile Chukkar Road, which ato really arterial, not much could be expected from sales of the a joining properties and it is only fair and proper that the public in general should contribute tewards the cost of their construction

8 The problem I set myself was to find with a certain amount of accuracy lands which might be made avoidable for the erection of bungalows and the provision of access thereto. These points are dealt with at length in the body of the report under their respective beads

O Another matter of considerable importance to Abu is the improvement of the existing basaar and the divelopment of lands cotemmus thereauth. There can be no two opinions as to the importance of this subject, and the photographs necompanying this report will give some idea of lands near the bazaar which can, as I shall shaw be readily acceled with a two fold object of improving the sites from a samitary previous of new joint of new, and the provision of additional building sites for the existing residents in the bazaar area os woll as for shopping improcess

10 Inally, it is not a serious matter and the elatement I attach to this report will show that the whole of the improvements can be carried out with a net cost of less than Re 10 000 I have made a particular reference to the provision of new latines as I am most emphatically against the continuation of the existing type of kitched structure which is indecous inconvenient and approaches the insanitary.

- 11 A note on the finances of the water-supply scheme already under consideration, which appears in the report is self-explanatory, and it may be sufficient here to state that under the scheme it is esticionated by the state of the scheme and the scheme and the scheme and the scheme and the scheme are scheme as the scheme and the scheme and the scheme and the scheme are scheme as a figure of Re 0.11 0 whereas the average cost by binsises has been stated by the P W D to be Re 5 per 1,000 gallons for a regular scopply for the whole year. These figures speak for themselves and are a refutation of the claim made by certain people that massimoth as the majority of bungelows already have been own wells, it is not necessary to provide for a municipal water supply, but the conveniences attached to a regular pipe supply as agents the supply from wells is so obvious that apart from the saving modified at a uninecessary to argue the mession.
 - 12 There is one other small point which might be referred to with advantage viz, the proposal to remove the incinerator and the con tanctor's yard from their existing position flanking the main Abu Road I' is a depressing and objectionable feature, which at once strikes the visitor, on his approach to Mount Abu, to be confronted with the inci regrator used for night soil end rubbish and the unsightly contractor a vard I propose that the momerator should be to the north of site No 40 in the valley of Nadi Easy access to the road could be made to the vest of eite No 40 breaking off from Abu Boad at mile No 1/8, which is about the same place the Pilerum Road takes off. This would entail a road for as much as 1,200 feet in length, and the incinerator will then be at a distance of 16 miles from the station as against a mile at riesent. It will then be constructed at a beight of 3.730 feet and some 150 feet below the level of site No 40 and I do not think, it can be sng gested that even this latter site would be seriously affected. The low lands adjoining the above site might with advantage he used for purposes of night soil trenches and the resulting manure disposed of to cultivators
 - 13 Passing along on his way to Abu the visitor skirts the area which is in the immediate vicinity, which I call as the bazaar area."
 - 14 Accompanying the report, are the full plane showing the improvements proposed. The hundring sate proposels result are total are of 375 acres being made available. It might here be remarked that the Executive Linguiers had estimated 578 acres for building sites and it is not clear how this figure is arrived at From the foregoing runaries it is appeared that I am not in agreement with him. I have selected a further three sites with a total area of 20 acres. The report deals with the question of development of these sites in detail and the estimates thereof.
 - 15 It should be understood that the value appearing in the valuation statement of building sites is intended to represent the value of the hind apart from a ground rent of Rs 20 per acre per annum which I gather it is desired to levy on all building sites, in other words the

value stated if it is desired to atrive at the fee simple value, should be increased in every case by approximately from Rs 300 to Rs 450 per acre

- 16 The conditions of leases should melude in addition to the payments of promising and ground rest provisions against closing or diversing nulls without the permission of the Municipality. This mining and minioral rights should be reserved to Government except in so far as the leases might have the right to quarry stone or material for actual use on the site for the purpose of erecting a hungalow or developing the land
- 17 There is just one other point in connection with building ster-which might with advantage be menhoused here is not the execution as it, whether the sites on the NaAhi lake should or should not be developed. The Municipality has I understand resolved to withhold the disposal of these sites for the time being on the ground that water in the lake night be contaminated as the result of their near. There are only five or six sites at the most and they are very difficult of development and not likely to find ready purchasors. Apart from the contamination of the lake there is just the other port and it is not an unimportant one our that of to a seathsite and if huildings are allowed to be creted the elevations abould be submitted to a keen criticem before construction takes place. It is possible to have an affractive and landsoms funding put up which could add to the appearance of the neighbour lood as a whole and enhance the general view of the lake on the other hand an unsagifyty building might easily be on eve sore.

TRAFFIC COMMUNICATIONS

The detailed description of the several building sites indicates that some of the sites are actually on existing roads e.g. those on the Abu Pood the High School Road the Anadra Road and the Sunsis Point Road I and consequently very little of any expense is called for in I roviding communication to those of the total of 63 sites 21 are more as less adjacent to existing roads. The remaining 61 must be provided with suitable approach routs and I divenue these after groing a description of the proposed atternal or triffer roads which may be designated. The Pilgrim Road and the Tour Mile Chahkar Road respectively for want of a better momendature.

I do not consider it describe to make more than a couple of important recommendations in respect of the construction of the two main traffic reads viz. (I) the Digram Road and (2) the Torn Mile Chakkar Road Sundry alignments have been suggested from time to time and prepared by the Executive Degiment at Abu

The general construction of the Pilgrim Road is more or less physically fixed but a close examination of the proposed alignment is a led me to make certain recommendations which in my opinion will retult in an improvement. I refer to this road hereafter

Apart from these two main thoroughfares, there would be need to construct subsidiary roads (throughout the Report I will refer to them as "branch roads) These branch roads number in ell mine They are essential for the development of building sites in the immediate proximity The total length of these brench roads is 8 110', and the estimated cost of construction is Rs 27.700 Generally. I have pro uded in my estimates for these branch roads to be 20 feet in width and carpeted with 6 inches of metalling 12 feet in width chanments have been naturally selected on the easiest possible gradients They may all be said to be suitable for vehicular traffic. In addition to the above nine branch roads at wall be necessary, if access is to be given to plots 26, 27, 28 and 39, to construct three other branch roads, but I do not recommend their construction for the reason that they will have to cross a very wide milla locally known as Nadi" (the name itself indicates the width of the nulls), and the culverting or bridging of such a nulla would be so expensive as to, in my omnion, render the construction of the roads uneconomical. It might appear superfluous m view of these remarks to make any reference to the proposals, but the fact is that the four building sites are within a reasonable distance of the proposed Pilgrim Road, and will be available bereafter when all other lands are disposed of In addition to the new construction, I make sundry suggestions for improving two existing roads. I have numbered these branch roads from 1 to 9 and they are shown on the tian in red each road baying its own identification No in a grean circle on the alignment

THE PILGRIM ROAD

This roud when made will altimately be a very important thoronghare, and its construction calls for no purtification. Its user will primarily be for traffic quite unconnected with the building utes it incidentially gives access to The advantages to be conferred by its construction are so well recognised, that there is no need to dwell on them in this report. As the title indicates the road will provide for exclusive access for pigrame to the celebrated Diviara temples. It will further greatly shorten and improve the approach to the Alwar I state.

A regular project has been worked out in detail end an estimate anomating to very nearly a takin of rupees, for improving the existing track and aligning the road has recently been submitted to the Government of India. The existing Fulgrim Road starts from a point on the Abu Road adjacent to the Abu High School Road and ends new the Dilwars temples. Bridged at three places in order to cross big nullss, it is nevertheless just a rough track not more than 5 feet wide on an average, and usually no more than a rough footpath and only passable for pedestriel traffic.

I have carefully inspected the proposals, with which I generally agree It is however possible to reduce the cost of construction by effecting certain changes as stated below

Frum facts an approachle saving could be effected by reducing the width of land to be acquired for the road. It is true a greater p rhon of the road will pass through Government land but shoots 9000 feel length passes through private land mostly culturable and a 100 width between road boundaries instead of the 60 contemplated in the Scheme would mastle in reducing the acquisition from 10 sures to daint? access which at the average rate allowed for, of 8 600 per acra would amount to Re 4 200 instead of Rs 6 500 thus effecting a saving of Rs 1 800. It med not be pounded out that the actual formation of the road should not be more than 20°—the Abu Road is not more than 12 on na verage—and a 15° extens on either side will unless the road is in a heavy bank where the width could be locally increased be found ginte miffectent for future widening etc. Anything approaching 60° or 100° (as propoved in an earlier report on the subject) a absolutely uncessary and would be weatful in the extreme

Apart from the consideration of the several approach roads to the sites on the right and left of the new road which will be discussed leserator I generally agree with the realignment which commences at mile No 1/2 of the mun Abu Road 930 due north of the take of of the existing Pilgrim track. This is the most stritable point of centact for this purpose. The course of the alignment tipto chanage 2 500' 1 e upto a point 450 south of the bridge towards the east of the Nilkantha Mahadov Temple near site No 25 is unobjectionable In view of the fact however that the existing bridges which are only meant for pedestrial traffic are to be replaced by new ones causble of taking a 5 ton running load it is not obligatory to restrict the alignment so as to pass over the existing bridge and a 30 more towards the west as regards the actual crossing of the nulla and a change in the further course of the alignment as far as the Torna village chainage 8 600 as shewn in plan No 853 would result in less acquisition less Leight of bank and consequently a reduced ultimate cost

With regard to the curved portion actually falling in the Torna village and the further course of abgument between changes 3 600 and o 200 or in other words between the Torna and the Gora Chuppra v linges I suggest a radical change from the existing proposals from a practical point of view. The existing portion of the road between il ese two villages sweens round the south west side of Mr Sharifud din a house and I see no necessity for the costly diversion which has been proposed through private agricultural lands towards the east of "hate sours involving costs acquisitions and claims for severance and a heavy bank for over 800 length. It would result in a clear straight reach of road much favoured by motorate but it is not justified from an economic point of view. The existing road gradients are quite good between the two villages referred to and all that is necessary is to widen the road where necessary, which will not be a costly affair an view of the good ground for the greater part of this section. The curve passing through the Torns village could with advantage be moved 25 westward of the proposed abgrament so as to properly link up the

two portions at its extremities and to keep within practicable grades Proceeding further ahead of the Gora Chuppra village, the existing Pilgrim Road overlaps the road going north west to the Military barticks, for about 200' length and then soddenly sweens down towards "he north east in a null between two high bills and then taking a sharn tern towards north west below piller No 10 of the Cantonment limits. r ses on through broken land for about 400' and finally crosses the udge through a saddle in the hills and emerges on the plants towards the north between the Alwar site and site Nos 2 3 and 4 situate towards the east of Dikaner House. The proposed abgrament for this portion allows of a little more flattening up of the 'S curve towards the north cast of the Gora Chappra village, if a little greater expenditure is 100 possible If economy is urgent, I do not press the point as being essential. The further course of the alignment along the side of the 'ull towards the left, would necessitate the construction of a retuining wall on the down stream side almost upto the wildle (channel 6.700) and seems to be the most practicable line to be followed. I agree with the alignment between this saddle and the ridge further north east i.e. between change 6 700 and 7 900, although it preses through low land and would consequently require a heavy bank, as the road would then b, betler situated with regard to the sites on its flanks, I refer to the Alwar site on the east and site Nos 2, 9 and 4 on the west and Bikaner House which would also derne no inconsiderable benefit from this rend The final section from chanage 7,900 to 7,516' (where it joins the Alm Orra Road), falls entirely outside the I used area and is consequently within the Sirohi himits. I recommend that the curve near pilar Ne 4 should be slightly moved towards the south west, as well as the further alignment, as shewn in plan No 1. which would result in improving the curve and also reducing the bank by an appreciable amount. The total length of the road will by 1.85 miles and the cost of the construction as estimated to be rather under n likh of rupees. This total cost will be recoverable in nort from plots developed by the road as building sites. Such part measured by the accrning increment is approximately Rs 36,000 (including the expitalized ground rent)

It is understood Re 20,000 is to be, or has been contributed by Bin Highmens the Mahaman of Almaz and that Res. 40,000 with be received from the Jun Community

In this way practically the whole lakh will be recovered

THE FOLE MILE CHUKEAR ROAD.

I think it is desirable that what might be termed the onsiern ado of this Chukkar Road should be made into a prominent roadway preserving generally its present alignment which exists as a rido or petiteron the Dak Bungalow going in the north casterly direction through Kumharwara and meeting the Pilgrum Road at change 5,000. At this

point its length is about 2,300 and further on it preserves the same stignment as the Prigrim Road for a designed of about 700'. It then branches to the right or morth cest and continues on to meet the southern boundary of the Alwar Delate, it combines more or leve parallel to the eastern boundary of that Dalate for about half it length.

Apart from a question of traffic, it is doubtful whether the continuation of this road to the north and them round to the cast meeting the Dilwain Themple Road would serve any neefal purpose and for that reason I refram from making any proposels with regard to the development of this particular road. The total length of the proposed road to be constructed would be about 3 800.7 that a cost of Ris 15 000. The construction of this road will form a very important improvement. It should be 20' in width, 12 to the scott east of the alignment being carpeted by 6" of metal and 5 feet on the north was being winded and kept as a ride I am conscious of the feet that its alignment will not show any great financial return on the load unmediately developed by thus road as only 10 or 11 plots will be directly affected.

BRINCH ROID NO 1

The object of this road is to connect picts Nes si3, 44 and 45 with the Main Abu Road. It follows practically the abgrament of the evisting track and its construction is therefore a sample matter. The length is 505 feet and the cost of constructing a 20° road with pretracts surface would be in the neighbourhood of Rs 1,000 only.

BRANCH ROAD NO 2

This is a branch breaking off the immediate southern and of the rigim. Road passing in the north westerly direction group access to plots Roa 22, 33, 34 and 35. The total length of this branch is 1,200 Leei and the estimated cost of construction in Rr 8 900. The only alternative to this access would be by means of culverts across the nulls which intervenes the sites and the 4by Road. The culverting is much more expensive than the road construction.

BRUNCH ROAD NO 3

This road practically means reconstruction of the first 2 000° of the existing Gascowild Read a track bardly if wide as fast improving the alignment and grade with a view to make it antible for velocitien traffic. The alignment suggested which is designed to give viceous to set Nos 49 28 64, 66 and 66 breaks if from the Abu Road Irom a point 200° south-east of the existing road, will be found to be both easy and economical. The fold height assembled in the 2 000° length it about 100° and the estimated code of constructing a 22 or road with 13° most surface would be in the neighbourhood of 18s. 10,000 inclusive of the three small culture to one tway. The alignment will however not shew any great financial return on the lands developed by it as only 5 oldes with 6 derectly effected.

BRINGS ROSD No. 4

This is intended to connect site Nos 61 62 and 63 with the Abu High School Road. The total length proposed to be constructed is 900° of a 20 width with 12° metal surface and the estimated cost inclusive of the two nulls crossings would be about Rs = 000

in extension of this road by the west side of site No. 63 is thou to the consideration of providing access to site No. 65 G final 65 (fithing site of the total total) in the proposal would be firm and properties by reason of the intercention of the very wide Kudra mills. These sites also, No. 63 and 67 to the south of Abn III. In School are rather out of wax and for reasons stated above re-the difficulty of providing access are not likely to find a market unless others are disposed of. The only as to provide an access to site No. 63 and 67 is by reconstructing the old cart road from where it breaks off from the Abn IIIgh School Road to a distance of 690 and by providing a branch road 660 length from this point to be sites on like wed.

BRINGS ROID NO 7

The object of this brooch road is to connect site Nos. 23 and 24 in Kith Impression to Digitar R. id. It starts from the north east career of site N. 25 f. persion it b. 1 in starts from the liter band road subward along the field path on the northern boundary of site No. 25 and arross the agen ofter id indicates the stoff the kideship practil. The length 1. '50 and the ground is quite plain. The estimated cost of construction of a 20 state road with 12 metal surface inclusive of the 3 guitthes of gracultural limit to be acquired is approximately Rel 1200.

Briven Roid to 6

The raid gives access to site \set \set 29 and 30 and the abgument there is the only one protecules owing to the very difficult nature of the grount on other sides. The raid is designed to follow one of the approach raids (finglih 297) to the black of outlionies to the cast of the Talici and normines also the sloge of the lind in the north westerth direction to the mirth wist corner of six. No 30. The total right of new constraintion would be 290' and the grade will not be search. The estimated cost of construction for 20' width with 12' metal surface is The 2.400.

Buisch Roid No. 7

Intended to give access to site No 20 adjacent to Golf links Length 500. Tetunated cost of making a 20' road with 12 metal surface is Rs 1.000

BRINCH ROID NO 8

This is a branch breaking off the 4 miles chall ar road from a point 2 700' north east of its bifurcation from the Pilipium Road to the south of Gora-chappra village and int inded to give access to site Nos. 11 and

12. It traverses fairly good ground and has to cross two very small nullss which could be slabbed over. The estimated cost for the 700 length proposed to be constructed of 20' width and 12' metal surface as approximately Rs. 2,000.

BRANCH ROAD NO. 9

This breaks off from the Pilgrim Road (realigned) from a point low west of the military well situated to the south west of the Alwar wie and is untended to connect up site Nos. 2, 3 and 4 with the Pilgrim Road. The total length proposed to be constructed is 850, and the estimated cost of construction in Re. 2,000. Although the road has been designed to serve the attex severally, it is very likely that the three sites may be sold in a group in which case the length of the proposed road would be shortened by more than 2/8 of its length, leaving only a nominal length to be constructed, which is may be found convenient to leave to the purchaser. The foot-path from the Bistaser, House would in this latter course have to be diverted at Government cost, so as to set these of the sites.

IMPROVING EXISTING ROADS.

I have not considered it necessary in the limits of this report to ceal with the improvement of the existing roads; such improvements would be in the nature of widening where necessary

THE LAKE HOUSE ROAD.

I permit myself a remark on this road to the effect that the first 700 length of this road from the Lake House to the foot of site No. 71 to the notin-east should be widened to 10°, and the storugt change in grade at the end of this length removed, so have to provide a good vahicular traffic road to site No 71. The cost of improvement is expected to be in the neighbourhood of Re. 500 only.

THE SUNSET POINT ROAD.

The 1,600' portion west of the Residency lawns from the junction of two roads to the point where Bayley's walk takes off from the road is already family good but needs resurfacing, which I think could be dense at a roat of Rs 600 for a 3" metal surface over 12" width.

It speaks well for the Administration that I have not felt called upon to criticise any of the other roads in the station, which are all generally in very good repair and of reasonable alignment.

VALUATION-BUILDING SITES

In arriving at the site values of individual plots it has been necessary to take into calculation generally eight important factors:—

- (1) Situation of the locality and existing development.
- (2) The area of building lands by comparison to the area of the whole plot.

- (3) The contours
- (4) Water supply
- (5) Distance from developed area
- (6) Altitude and prospects
- (7) Available garden lands.
- (8) Existence of trees or wood lands

Each of these factors naturally play an important part in the hypothetical purchaser's decision as to the amount that he would npt for certain building sites, and an attempt has been made to average out the views of the market in deciding just the right proportion attributable to the values in respect of each of these factors and it was a most difficult problem as the values liad to be so equitably adjusted as to give proper consideration to each of the items

However, an attempt has been made to schnere this end with the results indicated in the general has of values of plots which appear in the appearance of the plots and the opinion expressed that one plot is better than the other, it does not necessarily mean that the rate per acre of the first plot is greater than the second, for in the case of a very small and compact plot it might be ammently suitable for the section of a small house without much wastage of surplus lands, whereas in the case of a larger plot, it would be more suited for a more prefetnious development

A very careful consideration has been paid to the ments of individual sites, and the valuation shows my estimates of the values of those attes as they exist to day and as they would be after the construction of the mads indicated in another part of this report

It must be clearly understood that the values shown presuppose the existence of a certain market for the land. To all intents and purposes no lands have been in recent years either sold or lessed, and it is a matter of speculation as to what the market would be like assuming the property is put up for nuction. However, the prices given may be tale in as being the present day rites, and immediately the plots are sold the arcs in the neighbourhood would tend to shightly rise in who. It may generally be stated that the total value of the lands shown as building sites represent their value today on the assumption that the roads proposed have been constructed

I attach in the form of an appendix (No 2) a complete list of all the building sites in numerical order with a brief description of this individual boundaries, which could be suitably printed for circulation to intending purchasers and used with advantage in conjunction with the small calo map I have prepared for general use. Thus b' map shows all the building sites as well as all existing burnalous.

FINANCE

I also attach to the report appendix No 3 which takes the form of a financial summary giving the cost of carrying out the development of

the building sites as well as the nucremental value resulting from such development I rom this sintement it will be seen that the total manmental value of the lands developed amounts to Rs 36,400 to which must be properly added Rs 89,600 the capitalized ground rent scrumfrom such development These two figures amount to Ra 1,360 On the debit side the expenditure totals Rs 1,69,000 but naturally moludes the cost of construction of what may be properly termed uniminorative roads us for example the large part of the four mile cluster road and a considerable portion of the Pilgrim Road Acither the delit nor the credit aido has been discounted on the basis of actual development and disposal, for it is perfectly clear that it would be only a water of money to construct more roads than are absolutely necessary to meet the current demand as it arises and in the same way it would be wrong to assume that movements will be immediately payable without the contruction of roads or indeed even assuming they are all at once constructed Actuarially therefore it will be quite wrong to include the total value of all the building plots in the Municipal belonce sheet as an asset at the figure of Rs 4 30 000 and it is quite beyond the powers of any value or actuary to state with any accuracy what figure should be adopted for such a purpose The most that could be done as to defer the total values for a period of years during which it might rescondily be supposed that the lands would find purchasers in the mariet. If we take an outside ostimate of such a period say 20 years then the present value of building sites might properly be stated at Rs 2,40 000 and it would be reasonable on this brane to take the present cost of declopment assuming complete construction to 16 Jones. This would reduce the piesent value of this expenditure to Rs 87,650 In this way the difference between sucome and expenditure is Re 1 52,350

BUILDING SUTES IN DITAIL

In the absence of any particular nomenclature to the sites I have attempted to classify them in groups more or less defined with respect to their general relationship to known roads or localities These groups are 8 m number and m addition there are a few isolated cases of individual

The eight groups

- 1 The Bikaner Group
- 2 The four miles chukkar group
- 3 Golf Lanks group 4 Kalı Chappra-Torna group
- 5 Tahal group
- 6 Abn Road group
- 7 Gaomukh Road group 8 Abu High School group

The number given to the site in this report corresponds with the site number on the plan

Site No 1

Area Sacres.

Locality Four-rule challar read

Distance by Read from Po-t Offices 1 8: miles

Approx mate altitude of the positions for building 3 980 feet.

The site is situated to the north-east corner of Alwar site and is bounded on north seat and partly on the west by the four mile Chukkar Road and on the south and partly on the west by the Alwar site. It consists of a high hill with rapidly falling slopes and fairly good ground for building on the top, which commands extensive wews all bound. The difficulty of water supply and the out of the way position of site which litter renders it difficult to provide it with a piece access to site are however delirative features. Value 500 rupees per acre

THE BIKANER GROUP

Consists of sites numbered 2 3 and 4 and is situate to the east of Bikaner House, extending as far as the existing Pilgrun Road on the east. The group has the peculiar advantage of being in a more or less developed locality, has a potential access over the northern portion of the Pilgrin Road and has a well in the routinty for water supply. A pueca access over a 20 road (Branch Road No 9) is being provided for under the scheme in order to connect the sites with the proposed Pilgrin Road which runs close by on the east

Site No	Атеа астея	Distance by road from LO male	Alt tode	laluo sa existing per nore	Value as developed par acro
				Re	Re
2	8	143	3 880	8,0	1 100
g	إوا	1.19	مىرو	1 2800	חמשיב,
4,	30	147	3880	820	1 025

I consider site No 2 as the best owing to its higher altitude and commanding position. Next in importance come Nos 4 and 8 respectively, the former of which has comparatively better ground for huiding

Site No 6—Area 7—12 acres Distance by road from post office 1 and Approximate altitude at position for building 3,880 feet. This is a mee high site situated on the Pilgram Road to the east of Gera Chuppre village. The site commands extensive views all round, but the rapidly falling slopes would necessitate terrace development for the aides, and a

cortain amount of levelling at top. This is a case where the actual building area is restricted on account of the rugged slopes especially on the north and west. The burnal ground to the cast is very much lower and, the drawback is more apparent than real. The site has a ready access on the Phyrim Road and facilities for a well an the nulls to the north cost.

Value as existing Rs 800 per acre. Value as developed Rs 900 per acre

THE FOUR MILE CHURRAR GROUP

Conserts of site Nos 6 to 16 inclusive. In all 11 sites with an aggregate area of 66 eares. The group is attituded to the south east afthe Alwar site and with the exception of site Nos. 11, 12 and 16 sli the sites are directly on the four mile clinklar read. Of those plots 6, 7, 8, 9 for which 6, 7 and 8 are coferramous with the eastern Alwar houndary) are situate to the west and the remainder to the seat of the road. They have the kellon access a present, which under the Scheme, I am proposing to convert unto a metalled road 20 wafa. I refer to this under the chapter at Traffic communications." I broach nood No 8 will provide access to site Nov 11 and 12 which are situate at a distance from the road towards east.

S te Nos	Atea seres	Distance by read from P O miles	Altitude of position for building	Value as series acre of	Volus so developed per sure-
				Re	Ra
G	4.86	1 58	3,900	650	700
7	875	143	8,860	860	900
8	36	136	8 840	750	953
9	35	1 28	B 800	000	750
10	5.15	15	8,820	540	775
12.	1 800	ا 1 ₇₇ 78	¥860	1, 700	770
19	6	165	3,830	500	750
18	3-25	3	3,830	700	, 860
34	4	1	2,420	840	1,000
15	3	1	\$ 815	800	960
16	8.9	15	2 870	800	1

Sites 6, 7, 8 and 9—Are more or less uniform as regards amounties Na 8 is the best as it has the advantage of possessing plenty of good building ground Next in order of merit are Nos 7, 9 and 8 Costly,



provided with an access—branch read No 7 under the scheme. The well in front of the Dak Bung'dow could be used for water-supply

Site Nos	Агеа догея	Distant by read from 1 O males	Approximate altitude of the build g punition	Value as existing	Yakun sa dereloped
				Re	Rs
17	2 25	0.80	15:0	1 200	
48	34	0.4	8,800	640	810
38	2	043	2860	875	983
20	27	0-60	380	600	£uØ

I consider site No 17 the best of the group and 19 13 and 20 next in order from valuation point of view

bite No. 17—As previously indicated this tate has the advantage of boing on a good metalled road. The big boulders at top at irrst sight seem to screen off the front but in the bands of a good developer it is feature could be very meety utilized to high the tunnenty of the site. The boulders add a peculiar instituel beauty to the hand and with the building bet ind them amongst the shady trees and a garden on the first pace of land in the forefored to the north set is not each of which Luck building point referred to hers ince very lot patient to the north west building point referred to hers ince we will on patient to the north west.

Site No 18—The is situated to the nest of Lambarrears values in sufficiently removed (400) from it. A fairly good site but with steep rocky clopes especially to the south west on the roid side. A fine his tree is perched on top. The easten a portion of the side could be developed at a small cost into a small building plot with access from, the four his clusker road. Her facalities for a well so the multi-to-the south west. The burnal grounds to the south are it a understood now closed up since two years nevertheless they act to b corum extent as a detracting feature.

Site No. 19—This is close to R C Chapel and its lightest portion consists in fact of a big rocky enumence. The other portion is fairly woody find the whole has easy access and water supply

Site No. 20.—Under existing conditions this site has little building ground on top owing to the rocky outcrop running east and west along the whole length of site. A systematic cut and fill operation would rander the site useful for a small bungalow. It, is in a developed locality and has been provided with an access under the scheme

THE KALA CHÁPPRA-TORNA GROUP

This group coossis of sites numbered 21 to 28 inclusive. With the exception of site Nos 23 and 24 which are at a distance of 600' east of the road and consequently requiring the provision of a special access,

it is situated on the Phigum Boad between Kala Chappra and Torna villages Access to these is given by hunch road No 5. Site Nos. 28, 27 and 28 are attended to the west of the Phigrim Road and are separated from it by the 'Nati s very large stream which would anvolve con struction of costly bridges if the sites were to be provided with puece approaches As this is impracticable as an economic proportion no puece access to these sites has been attempted under the scheme. The sites are however within a reasonable distance of the station and are likely to find a market some or interest.

Site \a.	Area, acros	Distance by road from I O miles	Approximate altitude of the position for building	Value as existing	developed
				R.	R.
21	4	082	2,840	\$75	P30
22	3 76	116	9 800	479	7.0
23	8 85	1 28	9 870	004	728
87	3 30	1 26	9 800	660	800
25	600	121	3780	860	975
28	6100	1 32	3 660	450	}
27	6 16	1 30	3 850	460	1
28	5 60	180	3,850	450	

Site No 21 is in my opinion the best and Nos 25 24 22 23 and 26 to 28 come next in order of ment

Site No 21.—This is stated between the Kumharwara and Torms villages and has a direct access over the Pilgram Road which runs close to its northern boundary. The site falls rayally on all sides except the west, but affords good ground for building at the top. It commands good prospects on all sides and has a couple of fine by trees on it

Site No. 22—This is cateriomous with No. 21 on its south west boundary and mostly consents of rough and rocky ground with the exception of one lardy good pito of had to the north west fit for a small bungalow. The site has certain amount of prospects especially to the north west bit the burning glatts in the nulls to the south west is a deaded disadvantage.

She'Nov 23 and 24—These are close to Kala Chappra village and form part of the hill state-det to us cast. No 23 which is to the north cast is the top of the hill and No 24 to the south east is a natural terrace on the hill side. While the former is mostly rough and rocky the later consists of good ground for building. The one good point with regard to No 23 is however its high slattude and consequential good prospects under command. The well in the mills to the south would serve

both the artes The burnal grounds, now closed which are situated below the high chills on the north west cannot be considered as a disqualification

Site No. 22 —Thus is the next best site of this group. It is directly on the Pilgrim Road, has a well to its south west in the nulla close by and fairly good ground to build noon. A certain amount of filing up would be required to make good the days and heliows but the result would be rever effective.

Site Nos. 26, 27 and 28.—The impracheability of providing a puzza access to these sites has been referred to already. They are situated on three adjacent ridges to the select of site No. 25 and overlooking the 'Nodu' and are almost similar to each officer in features, amentics and prospects. The rapid slopes would involve the usual hill side development. Considering these disabilities their value must be vary low

THE TARBU GROUP

In this grouping are mentioned sites numbered 29 to 88 inclusive, estudied between the Tahail and the existing Pilgrim Road to this south east. With the exception of site 36 which has a frontage on Abu Road, all the sites have been provided with purchase on the proposed Pilgrim Road, whereas branch roads Ros 6 and 2 will provide access to sits 39 and 30 and to 33, 33, 43 and 35 respectively. The group is not lar from the developed locality and being mostly situated in the vicinity of Abu Road is kilely to be disposed of comparatively early

Bite No	Āres, Bores.	Dutance by read from P O, miles	Approximate slittude of the position for building	Volue as existing per acre.	Value m developed par acro
				Re	Re
29	58	1	\$ 900	675	900
80	7-85	1	8900	650	1,000
81	7	1 86	8,790	200	800
**02	استرا	1.10	l agent	l cogni	1 190~
89	6	14,	8,900	840	700
84	41	14	8,859	520	760
as	87	14	8770	800	1,000
36	2:25	1	3,760	200	, m
87	~ 8-9	1 29	8780	700	900
33	8 88	126	8,800	025	1,050

Site Nos. 29 and 30.—These are situated to the north east of the Thiell and have been provided with access over branch road No. 5. (They are high and airy and 30 has a comple of fine big mange trees in it. If the drawback to this latter site however is the existence of the incinerator and nights soil depot situated immediately to its court west. The position of these works is such that a great portion of this site, which consists of a beautiful high plateau with fine prospects is subjected to the foul smells carried by the winds, and the source of objection must be removed. I suggest an alternative site for them in another part of this site as a building site to be very much depreciated. The value of site 29 is also to a certain extent prejudiced by these works, for although the site itself is further north east, one has to pass the objectionable works in approaching the site. "As regards water-supply, the well adjacent to Tabail could be ntilized.

Site No. 31.—With a frontage on Pilgrim Road it is however e poor site due to the existence of two nullss throughout the length of the site from south to north. They are natural torrents during the rains end it is quite impossible to attempt any diversion. The contours are always and building construction could only take place efter extensive terrading is completed. This is one of the least eligible sites for the reasons above stated, and I imagine it will be the last to be built on. Its value cannot be more than Re. 300 per sere.

Sits Ne. 32.—This site forms the centre of the group of 9 sites to the north of Abu Road, and is the highest and best of the whole group. The water-supply is assured set there is a well containing potable water to the south adjoining branch road No. 2 which provides access to the site.

Site Nos. 33, 34 and 37.—These are rough and rocky end would entail heavy expenditure for leveling in order to make them suitable for building. Access to 33 and 34 is provided by branch road No. 2, end 37 will have a frontage on the new Pilgrim Bood along its eastern boundary. The wall referred to in site No. 32 may also be used to serve those sites. It is doubtful however if site 33 will be sought after with other lands available, owing to the difficulty of developing it. The branch road merely gives access to its southern portion whereas the highest and northern part of the plot would require extensive internal development to give access to it. The only good part is its commanding position and this is especially true of the northern partion of the site.

Site No. 35.—This is a charming little site with good building ground at top, a few fine shady trees and a well near by (melerred to under site 37. The cultivable ground at the south west corner on the bank of the nulls is an amenity.

Site Na. 36.—It is situated on Alia Road from which it has a direct access. It is ripe for immediate development and has facilities for a well in the nulls on the north west. This is one of the nearest sites to the developed part of Abn, but it has the disadvantage of being comparatively low vivos, edd its surface is recly and uneven. Like all sides

fronting a main road it must be subsected to dust from passing traffic Its position on Abn Road however must give it a certain added value in the eyes of the purchaser who likes to be in an established thoroughfare

Site No 38 -Lake No 35 this is also a charming little aite possessing fairly good building ground at top and the advintage of a well in the south west corner and a small piece of cultivable land The site may be said to have some sort of necess along the existing Pilgrim Road but it is more nominal than real due to the road being impassable for vebicular traffic

Site No 39

12 76 acres D stance by road from Post Office so m les 154 Approximate altitude of the position for build 3 SuO feet

This is another site of the same category as 26 27 and 28 situated to

the north cast of the Dhundars village on a high plateau but with fairly good building ground at top Hed it not been for the difficulty of providing a pucca access the site would have been one of the first class ones Value per acre Rs 450

THE ADU ROAD GROUP

The group which is situated to the east of the Abu Road and High School Road junction consists of 9 sites Nos 40 to 48 inclusive all having frontage on Abs Road with the exception of site Nos 41 43 and 44, which latter have been provided with a pucca access along branch road No 1 Site No 47 has an additional frontage on Abu High School Road The public well at the north end of the Kudra Nulla bridge could serve the whole of the group for its water supply

Site Na.	Area, acres	Distance by read from P O 12 spiles	Approximate all tude of the point on for building.	Value na existing per acro.	Value as doveloped
			Fuet.	Rs.	Rs.
40	10	15	8 670	1,000	
41	6-4	18	3700	690	876
42	29	16	3,750	875	
43	6-15	1 82	8,900	200	250
44	4.5	167	3770	025	875
45	44	16	3770	800	960
46	275	18	3740	875	
47	2 00	14	2,570	1 026	
48	140	1 00	3**0	P00	

Site Nos 40, 41 and 42—As a bulding site, I consider site No 40 as the best of the group as in addition to its having a ready access and water supply it has the advantage of high slitude and consequently very more prospects. The top portion could with little expense be rendered capable of accommodating 2 or 3 bungslows with apperiment buildings. A smaller summer home may be perched on the prominent rocky projection overlooking the Abu Road, thus adding to the otherm of the site. Nos 41 and 42 which although colemnmous with this site, are much inferror to it, especially the former, which is risher in the back ground and has bad contours. No. 42 has fairly good contours but is comparatively very low.

Site Nos. 43, 44 and 45—Thie is the furthermost group on the Abn Road and is satuated on a ridge running west to east to the east of the Kudra Nulla Bridge. The group has a certain amount of access over the katcha track running along its northern boundary but in order to make it fit for reducial rtraffe, the track is proposed to be reconstructed (Branch Road No 1 on plan)

Site No. 45 which is situated on the western end of the bridge has good building ground at top and has a couple of fine trees. The public well referred to already is nearest to this atto. Site No. 44 is lower than this in quality and site No. 43 still lower, so the latter has rapid slopes requiring costly terricing to prepare it for building on II, has one good point over others honever, in the fact that its height commands better prospects than the other two.

Site No. 46 —This is opposite to No. 45 and is girdled by the Kudra Nulla on its north and west and is just east of the Abu Road. It has a good flat piece of land in the forefront which however is only a few feet above road level and is consequently lable to dust and nuisance from passing traffic. The higher portion towards south is sloping ground, necessitating the usual hull side development.

Sites Nos 47 and 48—They are situate to the south of Abu Road between the Abu High School Bond on west and the Kudan Nulls on this cast. Both have frontages on Abu Road but site 47 has the advantage of hought and of a fine bug tree on it. The exuse chowln at the work, week evenum it site 57 may be removed from these and be exceeded opposite the take off of the new Pilgram Road where there is a suitable plot for it. Site No. 48 is cut up by a small rulla which could be diverted along the common boundary of 47 and 48 to the west, but the cost would be prohibitive especially as the site is small.

THE GAOMUKH ROAD GROUP

The group which is attuate between the Geomikh Road and the Abu High School Road, consists of S sites Nos 49 to 56 inclusive; Of these mice, three viz; 50, 51 and 58 have frontages on metalled roads, the first two on Abu Road, and the three-on Abu High School Road, while the remaining 5 sites have been provided, under the scheme, with a purca access along Branch Road No 3, which with the exception of the first 500' length mostly follows the existing abgument of the Geombia Road. These five sites are rather out of the woy, and have the further disadvantage of having no suitable spot for a well nearly as the sites are mostly on rocky hall tons.

Sate No	Аген, асточ	Distance by resd from P O in miles	Approximate altitude of the position for building	Value as eristing, per sere.	Value as developed, per acra.
				Re	Ro.
49	\$2	12	8,840	600	760
60	88	1-27	2,880	800	**
61	81	250	3,920	760	
82	60	140	8,900	660	576
58	B 18	147	3 860	725	
54	8.8	1.37	3,100	525	725
66	8.8	145	2,580	500	500
64	9.75	1.15	8,870	800	725

I counsider site No 50 os the best of the group, nort in order being 51, 58, 52, 54, 49, 56 and 55 Site 52 is high and commanding and has better contours than 50, but it has the disadvantage of being to the back ground, oad has difficulty of water supply Sites 53 and 51 come next in value as building actss Both have the advantage of a road frontage as well as proximity to water supply, but the latter has bad contours, whereas Nos 54, 56 and 55 are o Attle better in the respect Site No 55 however is mostly rocky and its value as a building atts must be very low

AND HIGH SCHOOL GROUP

In the group which a strate around the Ahn High School a mediade attes Nec 57 to 69, no full 3 stree of which 5 vs. 75, 68, 69, 50 and 64 have frontages on Ahn High School Road, and have wells in their vicinity Consequently they are rup for holding development. The existence of the High School nearly has to a certain extent developed the locality already. Sites Nos. 61, 62 and 63 have been specially provided with an access, undoor the scheme, by menne of Branch Road No 4. The remaining 5 sites, viv., 65, 66, 57, 65 and 59 ore out of the way ond the proctoshifty of the provision of a purch accessive them is

distinctly doubtful and this is dealt with under the heading of Traffic communications

81 s No.	Area, acres	Pusiance by read t om P O in miles.	Approximate altitude o the postum for bu king	Velps os exuting per scre	Value se developed, per accer
				Re	Rs
67	178	1 50	8,760	900	
68	2-9	1 56	3 890	700	750
69	41	1.65	3,770	950	
60	190	1 8	8,780	gao	
61	4:2	1 52	3 980	600	700
62	3 2	1 68	2 789	B25	725
63	43	1 a0	9,510	550	800
64	6-8 0	176	a 835	1 000	
68	400	2 00	8,550	875	
66	240	21	\$8:0	875	
67	1 410	200	9 830	8 5	
CB	846	2.2	8 680	450	1
69	2 85	2 23	23,165	450	

Site Nos 57, 68, 69 60 and 64—At once ripe for development as they hose a ready access and a convenient water supply I consider site No 64 which is situated on the hill to the north of the Abu High School as the best of the group. It is high with good building ground and fine woody slopes. The site commands beautiful prospects on all sides.

Next in order of ment are 59, 60, 57 and 58. The first three are more or less flat sites practically at road level, they have good building ground and existing trees on them when is a great amenty. Nos 57 and 60 are each only capable of accommodating a angle bungalow but site No 59 could with little expense be made to provide for two Sta No 68 has the advantage of height. In the contents are not good

Site Nor 61, 62 and 68—These are estimated to the north west of the Abn Eigh School and 61 and 62 are colormones with each other Sito No 63 is the best of the three, due to its howing better contours than Nos 61 and 62, which have an undulating ourface which requires to be levelled up to moke it fit for building. All the three sites are fairly woody and the existence of inflies closeby would render it not vary difficult to find a suitable spot for degrags a well for their worst supply

Site Nos 65, 66 and 67—The group he situated to the west of Alu High School and the hadra Nulls has to be crossed to get at their Phe difficulty of providing an access to the group has been atract, alluded to The sites themselves are of a poor nature as regards contours and other features and honce are not highly to be disposed of until no others are available. There wilcome must therefore be necessaryly low

Site Nos 68 and 60 -- These are situate on the hill to the south of Abu High School and are over two mules from the centre of activity. They are high and arry and have fairly good contours; but their rundeness as well as the impracheability of proxiding a pieces access to them are detracting features so far as their value as building sites is concerned.

SITES ON LAKE HOUSE-DILWARA ROAD

Sites Nor 70 and 71 —These are stunted to the north of the slow road and have frontages on it Site No 70 as to the north of the Bajputana Club it is bounded on the north by the boundary hunt of the leased area between pillers Nos 59 and 53 Site No 71 is to the north of Swudey Loadge and is deceddly the better of the two by reason of its having better contours and a piece of 8st hand at the top which appears to have been put to agreeably an each of the two by reason of its own with the site of the two pieces to be very wall suited for it. The farm house on it is only a derelie structure Both the sites are practically in a developed locality, and have ready fauthties for water supply. The extering paths acknife to fautherfor such the Craps through site No 70 need diversion which could be easily done.

Site No. 72.—This site is stimited to the east of the junction of the Lake House and the Anidra Rosds and comests of a lingo mass of rock. It is a high site and commonds a beautiff your of the Makin Lake but the difficult and rocky ground of which it mainly consists would require a tremendous expense to develop it as a building site consequently its valles under existing conditions must naturally be for

S te No.	Arm, acres	D stance by road from P O in m les	Approximate a titude of the po i ion for building.	Value as or stag	Valva as deve oped
				Re.	-Ba
70	415	0 63	9 980	876	
71	4.00	G 63	8,680	1,000	1 100
72	86	0-32	3,950	685	,

SITES ON THE NAME INCH

Site Nos 73 74, 77 and 78.—Of these mie Nos 73 and 74 are entusted to the north of the lake sate No 77 to the west and sate No 78 to the contil. The sites are mostly rocky especially Nos 73 74 and 77 I have an undulating surface and it would cost a great deal to develop im as building sites Being situated on the edge of this beautiful lake wever, they would make grand building sites if properly devaloped.

šile Xe	Area, acre-	Distance by read from P O m miles	Approximate attitude of the position for building	Volue es - ezisting, Per note	Value as developed per sore	
				Re	Re	
78	400	078	3 830	800		
74	74	2 37	0.8,8	600		
77	£-3	140	8,90	800	١.	
78	8.8	0-95	9,970	850		

SITES ON ROBERT'S SPEN

Site Nos. 75 and 76 —These sites are situated on the western boundary of the leased area between the Anadra Road and houndary poller Na 43 which is octually built on the place locally known as Roberts Spur The Dhobyshat Aulla which flows down from the Anakla Lake separates these sites from the Anadra Road, but a crossing is not very difficult. Site No 75 is the better of the two, as it is a level plot with plenty of shady trees, whereas No 76 although higher than 75 is very undulating and is almost barron. The locality however, is very lonely and there is more than a danger of pollution from the Dhobi Nulla fia well is constructed in the Nulla referred to These are serious disadvantiges, and it is very likely this pair of sites will not be in much demand by the ordinary person in the market

Site No	Area acre-	Distance by r ad from P O m miles	Approximate altitude of the position for building	Value es ossitiuls per acri	Value us developed, per acre	
				Re	Re	
15	31	1 29	3,710	800	***	
76	82	1-29	2,700	600		

SITES ON SUNSET POINT ROAD

Site Nos 79, 80, 81 and 82—These sites have frantages on the Sanset Point Road which is a fairly good road for velucular traffic except for a portion on the west (uppeosals for the improvament of which are being made under the chapter "Traffic communications) Site Nas 79 and 80 which are studie to the south and west of the Residency lawns are nice little building sites already in a developed leachty and powessing

all the amountes necessary for building development. Although not very high both have a raised plot of ground smitable for a small bungalow and have a portion of low ground each which could be laid out as a gorden.

With regard to Nos 81 and 82 whereas the former is sloping red of great height for the greater portion the latter is quite a plan atou a far feet above read level and expable of numediate developmen! The former is berron and the latter profusely woody. It is possible a well could be due at the south eard corner of site 81 close to the Nulls running nearby. The lonehness of the locality is however a disadvantage to the sites.

Site No.	Arca, acres	Destance by rand from P O in meles	Approximate altitude of tile position for building	Value as axisting per acro	Value as dereloped per scre	
				R.	Ra.	
79	2-1	0-60	9,620	1,2 0	1 275	
80	18	0.96	8,830	1 200	1 200	
81	0.00	14	2 070	600	700	
82	840	197	8,000	81.0	100	

IMPROVEMENT OF BAZAAR AREA

The Executive Engineer supplied no with the original plan on 33 theodolite and plane table,—an order that my recommendations should be on definite lines, I thought it necessary to have this plan checked and for this purpose the Executive Language cray kindly placed a surveyor at my disposa! The results have shown that this precautionary measure was necessary mismicula as one of the important road alignments in this plan was very much out. For example, the portion of the Post Office road from its junction in front of Blast well with the Blaratipur road right up to the spection at the South West corner of the Munepal sattle shed in line with the front face to the centre of the South West corner of the Munepal sattle shed in line with the front face to the centre of the Post Office road showed the section of the South West corner of the South West of the Church A check measurement taken from the South West corner of the Munepal sattle shed in line with its front face to the centre of the Post Office road showed the section distance in 38% whereas the plan showed SO—a doubtion of 22 feet

I have had the plan corrected as far as the time at my disposal would allow and an attaching hereadth a plan valued has been froughtup to date. On this plan I have shown my unrose proposals in distinct colours and in this way I have shade at as far as possible said explaintory. The Municipality recognizes that improvements to the Disease area are mecessart and there is therefore no need for me to discuss the subject from this point of uses. In discussing the baraar area I generally refer to the proporties bounded on the North by the road in front of Shroit Valsalat and the Telegraph Office, on the East by the church and Post Office road, on the South by the Trever Oral and on the West by the Dinarapur road about the Agent to the Governor General in Bajputana's Skirchen garden and the Anglo Vernacular School. The total area is approximately 15 acres, and contains 300 buildings used almost entirely for residential purposes, 110 houses and shapes combined, and 2 cuttle sheds and stables with a total population as in 1921 of 1,625 and up of je-

Trading	2]2-6	١,,				500
Butchers						<i>5</i> n
Others						2:5
A (fittes						€0
Coolies					,	200

From returns in Magistrate's office, I understand there are 10 cattle privately owned, of which 30 are tethered in the Baraar, and 12 municipal. One of my proposals contains suggestions for the creation of purea cattle stable in which it is descrable that all the Indicoks and buildades kept in the area should be properly housed. It is necessary to point out that the stabling of buildades, rtc., within the immediate precincts of residences such as we find in this area is most undesirable and very insunitary.

The area generally slopes from the North-East with a more abrupt fall from the flast from the Post Office road which is so muned locally for vant of some official designation. Land also slopes from the Telegraph Office road, from the West and North; the total result of these contours is that the centre of the line running approximately North-East to South-West, forms a natural nulla which redlects the surface drainage from a considerably large stars on the North-East. Practically to attempt has been made in the past to deal with this surface drainage or to train the afore-aid nulls with the result that it more or less wanders hap-bazard over the South-East portion of the area. I made hird recommendations for dealing with this portion.

It should be at once understood that any proposals which I have made are governed by the fact that so far as can be ascertained no large capital anni is available for expensive engistions and the result is that I have attempted not an ideal development scheme but an improvement of the whole area which should be within the realms of possibility of execution. This being so I do not attempt any drastic changes in the main hazar road which are flushed on either side generally, by properties of old standing in the form of shops and residences any interference with which would naturally mean heavy expenditure. I have confined my proposals to the treatment of the hazar proper, to improvement of gradients where possible and provident of surface drainings facilities.

GENERAL DRVELOPMENT

I now come to the consideration of the general development of the buzzor area and very httle is required to be said in this connection as L abole of my scheme has been shown on the accompanying pl No 847

The whole scheme resolves itself into the acquisition and demoisted of insamilary properties where the cost of acquisition would not be prohibitive and the construction of subsidiary roads which would allow of suitable building sites to be provided. An important feature is the reolignment of the road running to the South West of the area and North-East of Trevor Oval The plen will indicate that I have com pletely changed this olignment in order to make the road itself a boundary to the Oval proper This would bring into use a good deal of the existing waste land involves the removal of the male lattines end will provide excellent building sites overlooking the Oval There is an existing group of trees almost opposite the Dill Rusha bungalors which I should like to see preserved but I feel it is impracticable as their preservation would entail a very objectionable alignment, and I have therefore reluctantly had to provide for their ramoval. These sites will I think be in considerable demand and should realize good prices. I have not attempted to arbitrarily lay down the actual areas of the individual sites end my divisions into plote are only intended to serve as an indication as to what I think might be soutable areas Naturally the plan and estimates of any buildings which would be allowed to be constructed will receive careful scratmy, and attention could be paid to the area of the plot which will be allowed to be covered by building Generally epocking in a development of this obstracter I should not allow detached buildings freing the Oval to occupy more than a 1/3rd area of the plot Were I dealing with the plots without the advantage of this large open space in front of them I should ment upon 3th area being left open I should recommend that sufficient open space be left between houses to allow of the free percolation of breezes into the interior With regard to the roads in the interior there would he no objection to having buildings erected in blocks of four or five with party walls. This is a describle form of construction and allow of build ings being erected at a minimum of cost and the land being daveloped as economically as possible. There is a certain demand for more shops and this can easily be met, with the land it disposal

TRISTING BUILDINGS

A brief allasson has already been made to the alogs forming the hazars proper In addition to these properties other readeness are spread bap hazard in more or less doie proximity to the hazar proper with the exception of c inno of buildings more or less cotaminous, which runs from the South West of the snam brazer in the direction of the Troor Oval This spin contents B proce structures and the remainder to can be generally described as being hithe more than buls. I am

recommending that a certain number of these buts should be acquired and demohshed, and the area resulting thrown into the adjoining open land

ROAD CONSTRUCTION

2

In Bazaar Proper

Under the heading of drainage, I have indicated my proposals in respect of the formation of this road in so far as the question of drainage is concerned. For sections and cross sections of proposals please see plan No. 849

It is apparent that the present surfacing by means of losely dressed slabs of stone is outriefy meaticfactor. The best possible surface having regard to the gradient and user would be asphalt or one of the several bituminous compounds

On the score of expense asphalt construction must be ruled out but I timk an asphalthe concrete surface boung as its aggregate the very excellent local stone should be within the range of practical pointee. There is very little if any, heavy traffic and the following mixture will give excellent results

	CFO per cent.	* stone
By weight	{	sions stings
	(7 :	Beinmen

I need hardly add that the mineral and the bitimen should be separately licated to about 300° to 350° Tahr before mixing. If laid at a temperature of about 230° Tahr evenly spread to the required formation and rolled with a thira layer of stone chaptings scross tha road and finally with a heavy roller in the direction of the algoment a road surface will be reproduced which will list with this presont form of traffic for 10 versior or more than 10 mineral states.

If it is decided that a bituminous material is too expensive then ordinary concrete with a cement floating should be considered

Ordinary waterbound macrdam would be unsatisfactory for obvious reasons of gradient and roinfall. For the road will be largely a road in name only and more really a foot passage

REGRANING AND SURFICING

The regrading of all roads as a somewhat difficult problem, due to that the existing buildings. The roam buzzar is particularly difficult for improvement in this respect, but it is not necessary to deal with that in defail as I inderstand, the Executive Engineer at Alo ha alterady worked our proposale under this head, in which he suggests the repaying of the main hezar with stonedless. My previous remarks will make it clear that I do not think, this is the best possible treatment

BRANCH ROUDS

The branch cond K L M connecting the bazaar with the Telegraph Office road can be considerably unproved by cutting away the protruding rock to the south west of the Smohi Vakalat house and improving that junction at L so as to give o uniform gradient. The road is particularly bad at M. and its width should be improved by acquiring a portion of the open ground forming part of the compound of the property to the South West This is more particularly shown on plan No 824 The branch road N P connecting the end of the bazeur read with the Telegraph Office road ocar Adam a Hospital can be unproved by filling in a little along the portion of its length obout the centre, but I fear, this is as much as can be done to reduce this somewhat abript slope at either end The existing readway to the North West of the houses Nos 82 to 88 and to the North Last of houses Nos 79 to 81 requires to be filled in by a depth of 12 mehes in order to provent the flooding which is a common experience to the odining properties during the rama

NEW ROADS

The plan No 824 shows in detail the proposed new roads to be constructed The total length of these new reads is 3,000 ft They may be divided into two classes (1) 40 ft road to the North East of the Ovol, and (2) 20 feet roads improving the existing properties and opening up new lands suitable for building purposes. In addition to these reads there are two access lanes each of 14 It in midth which are provided for, one to the extreme South West of the estate giving occess to a group of latrines and another to the North East group access to enother group of latrines They are marked on the plan his letters R G and H J respectively The estimate of cost of construction of these new roads is included in Appendix No 7 which gives a total estimate of cost of the whole of the works included in this part of the scheme, from which it will be seen that the total estimate of cost in respect of these new roads as approximately Rs 9,000 " The 40 ft road A B marked on the plan requires to be constructed throughout the length of 380 ft and then in continuation to the North West along the existing alignment widened to the North-East of the said align There is like most of the lands in Abo an excellent foundation to the roads already oxisting god it should have only 6" metal surface

The description of the 20 ft roads in quite unnecessary as the plan itself is self-explanatory. All these roads have comparatively easy gradients and should be water bound and macadum constructed

For the surfaces of the proposed new truffic branar roads, which have easy gradients and for the ordinary access roads water bound macadum would be the cheapest, but if funds are available by all means tar macadum

SANITATION

The sacritation of the area sinder consideration is bad beyond description. I have personally seen children assurering calls of nature in

the open land not far from dwelling houses and no amount of regulation would stop this. It will require an army of sanitary officers dotted all over the place if this practice is to be prevented. Even for adults the existing sanitary arrangement with latrines often at a great distance from their residences cutail a considerable amount of trouble and inconvenience. I consider this question of the provision of latrines to be the most difficult of all the problems which have to be considered. For it must be remembered that unless reasonable facilities are offered, human nature being what it is, the people will not be prevailed upon to take long walks to answer calls of nature especially in hours of darkness when they are not under observation. The position of the existing latrines set apart for the use of nucles is highly inconvenient, and furthermore is most objectionable from the point of view of the general Their construction is elementary in the extreme and they are objectionable from almost every stand point. I really think that the best solution would be to have latrines dotted about at more or less frequent intervals rather than to have great blocks separated by considerable distances from the residences of the people who are expected to use them.

I have advanced somewhat in this direction by allocating in the plan five different sites, four of which ere to actually serve as sites for latrines for the residential eres and one in the nature of a public latrine just opposite the Post Office road, between the road and the histitwell. The latrines are shown on plan No. 847 in yellow weak.

The portable type of latrine at present in use should be abardoned for simple water flushing groups of say half a dozen seats in each group; A non-porous connecting trough under the seats could be finshed at intervals by a bhisti responsible for a series of groups. The trough would naturally be so graded as to allow of the rapid carrying away of the excreta into a collecting tank. This tank could either be of a portable variety or in the shapes of a cesspool with a trap, a water seal and hermetically closed. It could be pumped out as occasion required into a scaled cart and taken away for disposal during specified bours. There is no reason at all why the contents should not be trenched on suitable grounds with the ultimate benefit to agriculture in the form of manure. The form of latrine I have described has been used with considerable advantage in other small dwns. At this way, I sair convinced, and in this way alone, will the only solution to the existing problem be found. It may be said that a great deal of expense will have to be incurred but I venture to suggest that the ultimate gain will far outway any initial cost. There would be no danger from flies and no smell. I am quite aware in making these proposals that water is not abundant but a large quantity will not be required for flushing purposes if the arrangements are scientifically carried out. At a rough estimate, it may be stated that probably a provision of a gallon per diem for 10 persons would be sufficient. This would mean a total consumption of 150 gallons per day or say 200 gallons for 1,500 people. The total resulting sewage might be taken at under 250 gallons per

day which would represent the quantity which would have to be disposed if either daily, neekly or mouthly according to the capacity of the various chambers

I em attaching some drawings (Plen No 848), which give a rough a dies of the proposals in the form of sketch plans. It must not be thought that these recommendations contrin the final and ultimate decision but they can easily be improved upon, according to the amount swalable to be spent.

For example the flushing arrangements will merely consist of a taxwhich would be kept filled by the shin: This tank would supply either a gallon or o gallon end a half extern if the usual type the value from which can be released by the man in charge of the particular group of lattines when occasion demands. In all I have planned for So seats, and I think these would probably suffice

WATER SUPPLY

The question of water supply to the bazaer area will to a large extent bove to remain quiescent until the general water supply scheme for the whole of Abu is dealt with

DRAINADE

The question of surface dramage as far as the whole area is concerned is not one that creates much difficulty. The area is noturally self shaund and to only remains to deal with the collection of surface vater and its disposal by its natural nutlet at the North East ond of the Travor Oral by means of subsidiary surface drams which T have arranged for in aligning my proposed roads

The plan No 824 will make it clear that so fer as the main drain is concerned, which at present takes the form of an open and patural pulla running North East and Sonth West through the open land to the North East of the Oval my recommendations meludo the con struction of a new surface drein which starts from the rear of Framite Bekery continuing in a very nearly strught line due South West for 450 ft and then turne charp to the South Dast for a distance of 150 it and again at this point turne South West ultimately going very nearly due South discherging in the blusti mills at a point almost adjoining the land at present used as Municipal grass stores. The advantages of this alignment will be apparent from the plan I at one tune thought of more or less utilizing the alignment of the existing nulla, but I am satisfied that this will be a mistake and the proposed new abgrment enables me to provide a convenient open space between the proposed new road C D E and the Post Office road. It will be apparent from the plan that it would be very objectionable in have the backs of the houses on road C D E mainediately underneath the Post Office road The result will now be that an onen space will be provided for in front of the houses which could be planted with trees and could with advantage be used as o public garden I have not actuelly proposed in my scheme the utilization of the south eastern and north eastern frontage of the road C D E for hulding plots eithough this means the surrender of a certain amount of value from adjoining lands. Hisring a-regard to the aliatude of the Post Office road, I think it is a desirable feature A subsidiary water drain is carried from a point adjoining house No 207 almost due south making use of the existing culvert at the northern corner of the Oval

These two main surface water drains will certy less than is normally carried by the present nulls due of course, to the construction of the new roads which will have the usual side drains which in turn will be connected up with the previously mentioned main drain. As an appendix to the Report I are staching details (Plai No 849) of the proposals roleting to the construction of these drains in the form of sections and cross sections.

The local drumage of the hazar itself should I think, he dealt with by a central drein. This has some disadvantages from the point of riew of road user, but nothing like the disadvantages side drains would have. The latter would not be practicable due to the erratical boundaries of the bazar entailing many acute bends and turns. For this reason alone the side drains are out of question, apart, from the fact that two will be necessary one on each side of the road instead of the one central drain now proposed. This point is one of consider shie mortance as the road itself as lateady so very narrow.

From the plan referred to above showing sections and cross sections of dains it will be seen that generally the central drain will be covered and access would be given at suitable intervals by means of comparatively large manifoles. There is no question of fall arising, as the bezaar has e natural fall from east to west. At present the surface drainage merely finds its own way over the sione parements of the bursar and kutcha roads, and thus ulfametely gets into the nulla. The roads branching off the hazaar can efficiently be drained by the usual said drains.

The plan will also indicate that the beforementioned central drain is proposed to be of 12 inches vertical depth of V' shape formation. It is possible that during the periods of the heavest rainfall even thus may not suffice but the formation of the level of the road itself will naturelly carry the surplus through its centre. The drum may either be, for preference, of stoneware throughout, if so, it should naturally he rounded at the base, or as a more economic construction by a half circular pipe at the base with cement sides, or failing these two methods, wholly of neat cement.

Acquisitions of properties incidental to the Development Scheme

The proposals as foreshadowed in the previous remarks together, with an inspection of the plans accompanying will reveal the fact that a certain number of properties will have to be acquired numbering in all 100 33 of those properties are beld on pucca paths tenure, 47 on kintcha paths and 18 on Lok a tenure I have prepared a statement (Appendix 4) which gives the details of the properties with au estimate

of their capital values and I have shown on plan No. 850 as to how these tenures are distributed. The total compensation to be paid in respect of the properties held on purca path tenure is Rs. 15 (00), hitchird, patts. Rs. 18,000 and Lok's (for structures only assuming that new sites, are given to dispossessed on acres) Rs. 3,000.

LIND AVAILABLE FOR DEVELOPMENT AND DISPOSIL

The net result of the beforementoned acquisitions would be itst a considerable area of land will be available for development and daposal. Of this an area of 13 acres is required for roads and 28 acres or 1,00,000 s ft will be available for sale to the public offer provision has been made for the following public requirements re-

(a) Playground (b) Latrines (c) Cattle sheds for public and Municipality (d) Gardens, (c) Rehousing of Municipal aweepers, and (f) Municipal vegetable market

It should be remarked that, when making provisions for the Lok s with new sites, (admeasuring 10 000 s It) in every case the area which they have lost has been increased by all per cent when giving them now lands. This has been rendered necessary, due to the fact that their existing areas are so small that it would not be use to sllow rebuilding on such diminutive plots. In my calculatione I have not mindo any provision for charging the Loke with additional sums for the extra land they have been given as it is a matter for the Municipality to decide hareafter. I estimate that the surplus fand mailable for sale vis 100 000 s it is to day worth somewhere in the neighbourhood of Rs 65,000 as against the net cost of works and acquisitions of properties Rs 92 700 These figures are set out in a greater detail in the finance statement Appendix Ao 6 I think I should add that in arriving at my return from the sale of lands I have had practically no data on which to base my valuation, but I have assumed and all over rate of Rs 9 a 3 and I have reason to behave that this must be considered to be a ressouable figure having regard to the fact that the sites fronting the Oval are very choice and would probably fetch a very much higher figure

LAND TENEDES IN THE BAYAAR

I have shown on plan No 650 how these tenures are distributed

 Pucca patta —I gathar that all persons holding under this tenure are the owners of the fee simple possession of the properties concarried

(2) Ratche patta—Persons holding under this tenure I understand hold under perpatoni lease paying a reut (gro und reut) of Rs 5 per Shrolin Biglia (65 yds by 55 yds) and in the case of Joness Rs 2 per house yearly I have no definite information as to the terms of the lease apart from paying the ground reut and I am therefore not in a position to state whether or no thely would be entitled on this position, upon acquientant to receive mater than the actival value of the superstructure I as I may be that the lease provides that the Surob Derbar or thou successors

in title have the right to acquive these properties without compensation in respect of the loud. If this is not so, then noturally they would be entitled to the difference between the capitalized ground ront and the value of 1no lond in so far as the lond is concerned and the correct way under these circumstances to value their interest would be to capitalize the net annual value of land and buildings and to deduct from this the capitalized value of the ground rent. It should be borne in mind in this councetion that the annual value of lond and buildings might especially when the buildings do not adequately develop the site merely, represent the annual value of the lond olone. The ground rent might suitably he capitalized having a reference to the current rate of money at 6 per cent, or 164 Y. P.

(3) Lok's tenure. This is a tenuro which is not easily describable by any coneise legal definition but which has eventuated as a result of a gift to the Laks of certoin lands to which they hove on inallienable right of occupation free of eny ground or other rant. I understand the position is that in years gone by, the Loke were ogriculturists cultivating lands in the viemity, some of which naw form tha sita of the Trever Oval. In course of time the agriculturol ports of their holdings were required for various purposes and thay were left with the lands actually held by them for residential purposes. I am given to understond that they have what moy be said to be e Squatter's" title and so far os Government of India are concerned, Government have no right of ajection except by any powers which they possess for compulsory ocquisition and compensation. If the ordinary Land and Revenue and Civil laws governing lands outside the Native States upply then the Loks from the acquisition of their properties would be entitled to practically the fee simple value of the lond and buildings. It has been suggested to me in certain quorters that they would only be entitled to the value of the superstructure, but if this is so then Government possess certain rights of which I have no knowledge. I have discussed this matter somewhat fully because my proposals provide for the acquisition of some of these proparties.

It must be borne in mind however, on the assumption that full compensation will have to be paid, that my scheme provides for sites faing, giran, to Laka, who are disposessed of ...eir existing holdings, and it is conceivable and indeed highly probable that such persons would prefer to have o new site given them in the present area, and compensation for the existing structure, rather than full compensation for lond and buildings and my proposels are based on this assumption.

WORKS TO BE EXECUTED UNDER THE SCHEME OTHER
THAN ROADS, DRAINS AND LATRINES, PREVIOUSLY
MENTIONED.

REHOUSING OF MUNICIPAL SWEEPERS.

This is a matter which should receive early attention, as at present housing conditions are, to put it mildly, not such as to be recommended. I have selected a site which is numbered on the plan 29 and 30. This has an area of 3,750 s R, and provision could be made only for ten tenements. We cannot have an absorate deepp, but I should think, with reasonable care, that such tenements could be erected at the rate of R. 500 per tenement.

MUNICIPAL CUTTLE SHED

the present position does not fall in with the scheme arrangement and I have selected a new site as shewn on the plan "Plot No Si' It has an area of 4,446 s it and there will be authinered room to provide for 20 cattle instead of the existing accommodation for only 14. There is very little value on the existing shed and it is an eye sore to all near of the Post Office Read

GARDENS AND TREE PLANTING

An estimate has been made for an expenditure of Rs 500 on the planting of trees along the road side and in the open space fronting surface water drainage channel Nothing more is really done in the way of prepiration of a public garden, that is a matter which arises subject to the funds being available

VEGETABLE MARKET

At present the vegetable and frust sellers expose their goods for sale in odd places on the pasement of the main Bazasr which is a highly unsatisfactory arrangement. Plot No. 20 on plan admeasuring 0,200 a ft would be found to be a convenient site for a small vegetable market.

MEAT MURECT

Proposals have been for a long tune on foot to creek a more purce. Neat Market m a more suntable boothy I appears from the office hits that the present Murket is privately owned and that the ownership vorks in a number of batchers who originally combined together. It is not nonceast, in this Remort to disease the midutable ownerships I imagine that the original intention of the Munucaphity to construct a new Meat Market was largely based on the fact that the accessing Market is satisfied in an insanitary environment rather than that the Market itself was issuitated in any be that since the nonephone of the dead of the Market QUA Market has been improved, for a very careful inspection does not permit of a ready conferentation of the Market on the proposal that it is teeff insanitary. On two or three visits at different hours of the day I have been particularly struck with the market clean hours of the day I have been particularly struck with the market clean mess of all the stores and the fact that most of the meet which is explosed for sole was kept in fly proof cases. I am of opinion especially as land is not thely to be readily analished for the constitution of an

entirely new Meat Morket elsewhere the best course to pursue would be to reoder as far as possible the neighbourhood of the Market more sanitary and in this way to free it from the likelihood of contamination by flics It must not be thought that I am, for one moment, suggesting that the existing position of the Market is desirable for it is most certainly not but the facts have to be faced on they exist and I think that by drastic treatment of the area in the proximity a great deal could be done to remove the prevoiling objection. I need hardly say that it is desirable that the semi basement of the present Market should not be allowed to be used for residential purposes. It is at present occupied by butcher families and some tenants including a few shoe makers who have their stalls immediately coterminous with the exterior walls of the Market On a question of policy it is worth while to consider the effect that the erection of a new Ment Market would have on the existing owners of the present Market. It would be of no use building a new Ment Market if no butchers would be found who would occurs it. This will practically mean that the use of the existing Market would have to lo prohibited In courty the present owners should be fully compensated for the loss of their Market if such regulation could be enforced. I amagine it rould only be enforced on saintary grounds and I think it would be extremely difficult to converce an important arbitrator that the present market is in an insamina condition. However this may be there is no doubt that if any expense has to be incurred on unproving the anymonments of the market and consequently the market that the owners of the present building might readily be expected to rentribute towards the cost of such impresements. They might either do this by removing the tenants from the semi basement of the marlet and im proving it in such a way that no of section on sanitary grounds would he taken to and by paying o certain himp sum to the Minneipality towards the cost of acquiring adjoining properties or in such a way as might be notually agreed upon. The owners of the Market must be fully aware of the Municipal proposals and would naturally be pre pared to pry a rearonable contribution towards any improvement scheme which would allow them to retain the benefits of the present Market

BRIEF NOTES ON ABU WATER SUPPLY

Kunna Nala Scheme

Finances

Some criterian is necessary with regard to the calculation of annual nutsialments or appearing in appendix V, on page 23 of Vol II, printed in 1921. A slight error has crept into this calculation and the annual equated cost of repayment of capital together with the interest on the testanding amount from year to year would be Rs 8,094 and not Rs 7,810 assuming the rate of interest taken is 4 per cost The factualistic is a simple one and a reference to make 85 Table 5 of the

book of Valuation Tables (copy of which was supplied to the Hon'the the Agent to the Governor General in Rasputans under cover of my report regarding the valuation of Alwar site, No. Abu I, dated 11th June 1941) on the assumption that the Isan is to be repeat dwithin a period of 20 years give a part a purchase of 18 50. If total long quoted in the above mentioned appendix is draided by this year a purchase, the annual payment is at once revealed.

This particular appendix was prepared some years ago, and the witerest of 4 per coan is now of course quito out of date and should be increased to 6 per cent. However, I notes that in appendix 3 revised on page 35 of Vol II, the interest on capital has been actually reduced to 8½ per cent networkstanding the fact that it accumpanced a report dated 17th June 1920. It is hardly necessary to say that a loan could certainly not be raised as at that date at anything less than 8 per cent.

I notice in this latter appeadox that no promises has been made for repayment of capital. This is a serious emission and would make a difference on a 3½ per cent bases of 33 7,700 approximately, the animal charge being very hearly IRs 18 500 against the Br 7,700 state. The result would be that the total which is IRs 10,002 becomes IRs 18,600, and the result indicates the cost to the consumer is IRs 12,750 per 1,000 againors, against practically II amma calculated in the appendix, assuming we can borrow at 35 per cant. But if we take 5 per cant as the market price of mensy in 1020, tha total sinusal cheege for interest and repayment of capital spread over 20 years is IRs 19,000 in round figures or an increase of IRs 11,400. Adding this IRs II,400 to the IRs 10,950 the total costs is IRs 23,300 r well over 100 per cent more than the estimate Ir is this apparent that the oursets terminate cast to the consumer, a roughly IRs 18-90.

Coming now to the final rowsed estamate appendix 3 (rowsed) for a 60 feet dam, printed et pege 40, a smillar series of misculculations appear Firstly as regards the onasson of any provision for reparament of capital and secondly as regards the gross underestimate as to the rate at which capital could be borrowed. Adopting 6 per cent for interest and repayment, the annual cost to the consumer would be Rs 29,240 as against Rs 8,929, an increase of Rs 18,811 If this sadded to the total cost of Rs 12,972 the latter figure is increased by over 100 per cent and the total cost to the consumer will thus be nearly Rs 1-1-1 for 1,000 gallous

It should be observed that the estimated capital cost of Rs 2 55,104 omits the cost of establishment, tools and plant of Rs 4,849, the latter sum should of course have been included. If has been included I notice, under general abstract of expenses, Statement II on page 40

A further omission is the capital and annual costs incidental to provision and maintenance of the mains required to serve areas at the moment undeveloped. It will only be by the development of these treat that the maximum consumption will be attained and deferred costs etc., should have been included

In my opinion the estimated consumption of 21 million callons per annum is a reasonable estimate for future requirements but I do rot anticipate on the evidence before me that this maximum will be reached for another 10 years and measurating the cost to the consumer. I think it would be wise to assume 20 million gallons for certainly n ment period of 5 years. This would mean an increased cost ner 1.000 gallons during the next 10 years. The only way to diminish this cost would be to construct the dam in the first instance to a height of 40 feet maling full provision in the construction for the simple round of an ther 10 fe t when occasion required at I fully appreciate the regions given by the Superinten ling I manner in his note dated 17th June 1920 for the unmediate construction of the dam to a height of 50 feet, but I see no reason why the server main of 5 melies should not at once be provided. It is true that it is estimated the extra 10 feet of dum will only cret another Ite \$ 000 But I think there can be no doubt that in another 10 years time, when the prices of money and material are easer, the net onnual cost will rhow a saving over the present so t of immediate construction

While di cussing this question of finance, I think. I need point out that no provision has been made for deprenation, on the other hand I am of opinion of a matter of poles, as apart from finance, that it is destable in the provision of the renewals fauid, the charge should be graded. The question as to how we shall provide for parameter for things needed now which will benefit be needed in a greater measure, can only find an answer to some degree in a differentiation of the anorthrapton charges in the way. I have indicated

GENERAL.

I am afrud I du not agree entirels with Mr. Keeling's note dated 7th March 1919. A run-off of 20 or 25 per cent would be reasonable in the sands plains around Alimedalind but in a ruck calcilinent area ruch as we live in contemplation. I have not the slightest doubt that I' to 70 per cent would be a runsomable figure to work on, with a preference to the former figure.

Lealings in all artificial teremons of the typo in view must always be a houldful factor, and time after time I have seen money wasted on the erection of expensive dams as the result of not making sufficient borning all over the site in order to test the potenty of the rib coil. Superficial observation is not inflicient, but I must say it at in the case of the ribe under reference once a experience leads to the behef from the formation of the rock that the leakage would be very about

Again I am not in agreement with Mr. Leeling when he question the wisdarth of the "buttments. No more solid abutiments could be twished for than are to be found on this site and I am of opinion that an arched dam would be crimently suitable and certainly more economical than the contract of the contra

METHOD OF RECOVERING ANYBAL OUTLAS

The calculations have been very properly and necessarily based on the cost to the consumer of so much per I 000 gallons but the method of actually collecting this sum appears to have been based on assessment on annual rental value. Inasmuch as the calculations have been made on a certain consumption per head, it is questionable as to whether the principle of assessing on rental value is one which should be adopted or not I rom the principle honover, it does not necessarily follow that the population would be distributed on the basis of annual value. This latter basis of assessment had its origin in the belief that ability to pay abould form the criterion of assessment at is not necessary in a report of this description to enter into a discussion as to the merits or demerits of the principles is eved an I am more concerned to suggest a method whereby the annual acturn expected could be secured. The obvious method of ensuring that the consumer adequately paid for the benefits would be to instal water meters in every house and provide for a minimum monthly ayment but this would be practically mappeenble in the bazaar area where I imagine there will be a certain source of supply in the form of stand pipes for mam years to come

It might be possible however to combine the two methods, var to matal meters in those properties where it was felt that the use was in axous of the aterage supply calculated and to assess in the case of other properties on the bases of annual value—even in these inhite cases it might be necessary to fix a minimum charge.

I apprehend that legrelation would be necessary to enforce an assessment on all inhabited properties. It is quite concervable if it is not a few cases owners of properties would be content with the existing wells and would not be prepared to go to the additional expense of having a water supply kild on. No provision has been made in the estimates for such cases and it has been assumed that every resident on the bill will avail humself of the water-supply.

In conclusion I am strongly of opinion that the Kudra Nala Scheme has been soundly concaver and is able to solve the problem of water-supply to Mount Abu Tròm my pravious remarks it would be gathered that m my opinion the cost to the communer for the first 10 years of the scheme would be something more than Es 1.8-0 per 1 000 gallons But there is nothing to be alarmed at in this by companion with water-supply systems in other places when it is remembered that the population is small and largely crowded into a few months in each year.

SUMMARY.

At the present moment the demand for building sites is the rowers of encouraging, but I think to some extent the Managualty is responsible for this state of affairs. They have a magnificent build station with a great deal to commend it, but they have not sufficiently advertised their wares. Every unpursual Bulway auton morth of Bombay and south of Delhi rhould have an attractive poster on it retting forth the advantages of Mount Abu as a builday and health its ort, and advantage should be taken of the hundred and one different methods of adventising.

If the Riestrie Lighting Scheme, which is proposed at an estimated cost of two and a half lakhs of rupes, and improved water-supply are provided the hill should become extremely popular,

If I may be permitted to remark on general futures, it is to the effect that in my opinion the Government of Iudia should metely consider the explain received in the form of permina an the leaves of building sites as a opinifized ground tent, and should nectuarily relimping any claim they have to the perminan received upon the execution of the leaves. If the Government of India desire to encourage the randary development of Alm, they therefore for some years to notice case to transfer it as a source of revenue and thould be content merely to receive the amount that they have actually spent in payment to the Swidi Durbar. It will only be by a compatible consideration of a suggestion such as this, that the Municipality will have funds evailable to meet the interest and rinking fund charges on capital necessary to carry out any of the improvement foreshadowed in this report.

A. E. MIRAMS,

Consulting Surreyor to the Government of Bombay.

Poora,

1st March 1923



APPENDICES.

APPENDIX No. 1.

VALUATION OF BUILDING SITES.

Ear Ng	Eate per acte as exetting.	Date for acre as developed.	Remanus.		
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41	1,000	875	Frantage on Abu Roul.		
42	676	1	Frontage on Ahn Road.		
43	t00	700	1		
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APPENDIX No 1-VALUATION OF BUILDING SITES-contd

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Poons, 1st March 1923 A E MIRAMS,
Consulting Surveyor to the
Government of Bombsy

APPENDIX No. 2.

List of Building Sites available for deporal with a basef description of boundaries, are, locality, distance from Post Office and value.

APPENDIX No 2 Liep of Building sies atalaber for d

			REMARKS			100 Site necessible only on ex intract A Mile Chakker	Meers provided under the		
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APPENDIX No 2 -LIST OF BETTER

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2 B C. Chapel	97 Golf Lanks	4 Kumharram	Тогля	Kala Chappra
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APPENDIX NO 2 -LIST OF BITTERS

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Tribe OF	Approximate alphndo of the Pomitor for building	3,800	9780	Ong.	3 860
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Appendix No 2 -List of Building sites ataleany for disposal-could

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tr Pietago Algumi tr Pietago Algumi Pietago	Sic to the west of Abs II; the School Road Northeast causer 100 could have a such as 100 100 west of road other. Morth by a than mel from this content does well, lies to Abs. Jight School Road (100 from than 100 Abs.	forthful as worth and has parallel, to the first good for 2000 from 10. First good and the season of 200 for 2000 from 10. For sold, the first	goung overtaken di dikini, Noch bala em ceredak carro 100 dann, the meritar Tesk post beng 129 cash of prachen meritary West by malle di (50 fram Walle and Mark School, 100 di (50 fram Esti turrend by the footpull, notember 10 No Northeast ferme diby enthewed as the School Real sems disposit, with Ask School and Schoo	thus point, North partly by nulls and
Approximate altitude of the position for the fort	3,830	3,770	3,880	
Distance by read from Fort	Miles I-86	165	188	_
Locality	Ugh School	Ditto	Ditto	•
Arcs in 12	29 Abu High Road,	4 -	£ 1	
4-8	- 9	9 8		,

REPOR	T ON DEVELOR	MENT OF MOUN	T ABU.
[No pure a access provided in feer the achemic as it mysters the construction of a ceatry hadge over the Kultan nalla,
,	800	1000	12 In pt
	Safe on the hall to the sendwarst of Nudmulla bange on Aba Iffel School loss sective by suffer. Each by Nudar solid sectively a suffer. Seek by Nudar sulls and west partly by Nudar, sulls and partly by footpath runs up-hill due northwork	Side on the ball due seeth of Abr High Selvol and due cast of the Exper mile Francia North and west by North mile Francia North and west by North, the Francia Company of the Company of the North light School supervisit read facility Als Light School supervisit from Cago)	She studied to the another of the junction of the Norther and and rolls remiting they to beneater of Alba Ilitis Shop in the studies of Alba Ilitis Shop in the studies of
3,780	3,810	8,635	3,850
1-68	180	176	er er
Dutto	Difte	Ditta	Diffa
3-63	£	0 30	4
8	8	3	*

-	-	344 0311	or burnerstra	T OF MOCEST WERE	
	REMARKS	Sand mank as for No 67	Diffs,	A far avar ele, Xe pace, decese provided under tha schune.	ķ
-contd	Eats por serra	370	375	450	
APPENDIX NO 2 - List of Building sites attained for disposal coald	Brief desergifin of kondares) 02	outh from the southerst control of Co- routh from the southerst control of No. Or referred to the control of the southerst con- referred to the control of the control of the coformous with eastern beauthery of No. 60. Os north by a loss das actuals by the control of the control of the transferred to the control of the control of the control of the transferred to the control of the control of the control of the transferred to the control of the control	and this Bakes ground. On such by Silve of the Mirwells of Tind Sold of the Mirwell of Tind Sold of the Mirwell of Tind Sold of the Mirwell of the Mirwell of Tind Sold of the Mirwell of	rules up in the nath, reneway week by the north, wide of the Kligh School Lricket ground.
-Liter or	Approx. neto altitudo of the position for the position fo	3,830	1,800	5,530	
K No 2-	Durkanes by rend frem Fort Offices	Miles. Pri	41	Ž.	_
AFFERDE	Locality	84 Abr High School Bend,	Ditto	3 45 Abu High School	
	Ares, III deres		1		_
- 1	8,42	9	5	8	

161	aroni on Division			
- Samo verstale state the constant				
	* * *	1200	90 80 80 80 80 80 80 80 80 80 80 80 80 80	1
3,006 6the ordermore with No. 6 On worth by the properties like the accordance of the the throat the south word secure of No. 63, to a distance of No. 63, to a distance of No. 71 and a seadlessed direction in a carrier of the the throat of the south of the seather of the No. 6 and the throat of the No. 6 and	Sie om the Jakov Monte. Debrars. Reads and the service father Very 25 Stathard and the service of the Very 25 Stathard and the service of the	8,800 Each the methwest of Swenby Lodge South Parko Heres Bood 199 Here select Schitterest course 860 dess nerthwest Host Junction of the road many malks. North Each by a house "Ar grandle North by a low very set, and yearful set that each er youndary it is distance at 300 feet.	Site on America Roud to the northward of Lideo Blewer Richt by yallin safemang Jaleo Bloom Hand Rank by footpath to yampung well. Weekly Lake Roud House (40 briton read algo) up to multin crosses of the Jaleo South by America read (60 from edge)	
3,865	3 840	8,880	3 060	
223	89.0	0-83	890	
Ditta	4 lo Gagg Road	4.00 Loke House Road	Nakh Iako	
\$ \$		90-7	9-8	_
8	20	z z	22	

APPENDIX No 2 -- List of Bullding sites available non distosal -- could

,	.)					
	Braaus					
	Esto per more	g,	000	<u>&</u>	800	000
	Ress description of boundaries		Site to the merhwast of Bust Club on Nahh Like. Nath by foot of high clift. East by noise draname into the Live under a bridge Both by Andra Root and work by a lice translage up half call and worker from a point 800 week of the mala crewang referred to	Colemnium with 73 on its west boundary North by fook of chiffs, South and part west by Anneds road and part west by footpath, Some die oxthanis applil, Affect	Sick between Roberts Signs and Aundin Glab Sick between Roberts Signs and Aundin Glab Nicells and early noils from Divol Clast Work by Newed bennings between Filler No. 45 and 44, 110 due northeart of Emerginal 730 due nowillowert of Kitter Som Work of Som Signs S	from each of feetfulk to Roberts Sport North partly by feetfulk to 300 was of frame and many maning down sate phina. Sash by Unbot Glast radio and south by feet of high radge.
	Approximate alternate of the position for the halldong	•	3,840	8,850	9,710	3780
	Distrace by road from Pont Office	Miles,	82.0	0-67	129	1720
	Leonlity		Nakhi Lake	Ditto	Anadra Road Roberts Spar	Detto
	Arra in series	_	-	2	31	en .
-1	(62	2	re.	22

900	980	1,276	1,950	
Sitts to the week No. Ask Liber, North by the high shifts above Dhabi Chat, Farel ya Lime Mark Hamild to the hira was, Seath by the ratil activities into the hise East & Charles beautisting into the hise East & Charles beautisting in No. 40.	Site as player, Will, and to the sentiment of Mahli 'this. Bemede on each perily by the overly head of 200 Hard and purily by the small only removing the sentiment. He card he had been sentiment of the sentiment in the card of the sentiment of the sentiment of the sentiment in the sentiment in the sentiment in the sentiment of	Site to the seathest of the laving and on the Sunset Pout Read (scath side); north by rath adjoung the mandipal gradum. East and south by Samet Foots Read; West by nulls.	Ill in the fock of the two Buret Foint Rouis West boundary (curred) 200° cast of the courte of junction. Each by the Talar mail under, North and courth by Sunset Point Read (10' from celps).	Site near the Samel Point and on the june- tion of Baleys Wells. North, each and nearth by nulles. West by Boloys Walk 30' from He east edge nt the junction followed up in a regular line bearants north.
3,090	3,970	3,820	3,336	3,970
н ,	960	080	0-98	ž
•		•	•	•
60 Nakhi Lako	Ditte	Residency Lawns	Sanset Point Road	Diffty .
	g.	ě	18	9
	25	28	8	ន

APPENDIX No 2 -- Liest of Buttered sites atailable for distosal-coneld

٠.	,	В	MP	ORT	OY	DEV	KLO1	PME.
	Венави,							
003556	Rette Per ferre			PH)	900			
משמעת במשמעת	Bilef description of boundaries			Site to the neuth of Sames Done To	Cont Read (20 from odm) Express	wert by nullar, Width cost to west in the	Survet Front Road Northrant comment of	east of the Baley e Wall maction.
	Approximate mate elitterdo of the penton for for brilling			3 900				_
	Distince by read from Foat Office		Miles	137	_			
-	Locality			3 45 Sunset Pant Bond				-
	Area	_		3.46			_	1
	정요흡,	-	1	3				1

Nors —In addition to those rates ground rest at the rate of Re. 20 per sere yes ansum so sessimed to be charged in seath case.

Ist March 1923

Consulting Surveyor to the Government of Bombay A E MIRABIS,

APPENDIX No. 8.

DEVELOPMENT ON BUILDING BITES.

Ruancial Statement.

Credits.		Debits.	
Increment on plots resulting from development under the schouts Capitalized ground rent 20 represent the schouts of the schou	Re. \$6,400	Cost of construction of reads	Rs.
Total	1,26,000	Total	. 1,89,700

No account has been taken in the above statement on the crofit side for either increment or capitalized ground rent in respect of those plots which already have read access and are consequently not affected by the development proposals in this report. Equally no accessant has been taken in respect of those state to which no access has been provided or exists.

The total value of lands already having adequate access is Rs. 71,000 to which must be added the capitalized ground rent ves., Rs. 34,000, making a total of Rs. 1,05,000.

MA.	recens us.	/ W.			
		•			Ra.
Total value of all Building sites	-				2,80,000
Capitalized value of ground rent					1,50,000
			п	'ntal	4.80,000

Poosa: } A. E. MIRAMS,

: March 1923. \ Consulting Burveyor to the Government of Bambay,

APPENDIX No 4,

IMPROVENENT OF BAZAGE AREA.

Faluation of properties to be acquired

Note -P -Pares polts

K.--Kateha patia,

Le-Lok's feature

House No.	Tenure	Capital valu	REMARKS.
		Re.	
144 to 147	P	2,082	
143	ĸ	488	
143	P	265	1
141	ĸ	425	i
140	ĸ	471	}
199	P	846	
137	ĸ	264	
186	ĸ	858	
185	K	311	
184	K	813	İ
199	P	413	
132	ĸ	285	
181	P	400	
180	ĸ	540	
76	P	800	
77, 78	P	802	
160	ĸ	743	
169	κ.	323	
164	1	- 1	
165	ı,	260	Falue of structures only (delapidated)

REPORT ON DEVELOPMENT OF MOUNT ABU.

APPENDIX NO 4-IMPROVEMENT OF BAZAAR AREA-contd

House No.	Tenure	Capatal value	Remarks
167	K	Rs 181	
168	P+K	{ 172 } 285 }	
169	P	285 J 280	
170 171	} ĸ	820	
172 173 179	} r	900	Value of structures only.
174 180	} ь	420	Value of structures only
206 217	L	200	Value of structures only
219	J		
221	Ì		
223 to 227 and	k	1,426	
233	þ	1	
222	P	370	
231 232	P	1,225	_
234	Ų		ł
237	} P	627	
238 239	} P	495	}
181	} K	870	
183	P	435	

REPORT ON DEVELOPMENT OF MOUNT ABU.

APPENDIX No 4 — IMPROVEMENT OF BAZAAR AREA—confd

louse No.	Tenur	Capital value	Runanus
185	ĸ	Rs 359	
187 188	} r	453	Value of structures only
191	5		
103	11		
184	I L		
195	"	808	Value of structures only
196			
189	K I	E04	
100	K K		
į	Ehalası Lines	276	
837] Lines		
336	R	1,050	
322	إ ا		
934	К	468	
888	P	460	
382	K	160	
384	ĸ	200	
347) [- [
348	R	760	
349			
860	P	1,035	
351	P *	730	
983	K	664	
352			
353	· P	1,465	
54			
360	ĸ	62u	
60	P	373	

APPENDIX NO 4 - IMPROVEMENT OF BAZAAR AREA-concld.

House No	Tenure	Capital value,	Revares.
866	P	Rs. 170	
357	P	236	
859	ĸ	716	Í
359	P	368	
363	P	353	
362	ĸ	403	}
364	ĸ	450	}
866	ĸ	820	
867	ĸ	303	
870	ĸ	495	
368	K	100	
369	K -	555	
871	ĸ	275	
381 362	} P	200	Pertion wall

Note - These values are based on information as regords in and tenures, etc., supplied by the Rumorpal and Talmidar's offi-

Poona,	7	A. E Alikabis,
1st March 1925	}	Consulting Surreyor to the Government of Bombay

APPENDIX No 5 IMPROVEMENT OF BARRAR AREA

Areas of Final Plots

lot No	Area	REMARKS.
1	S £t	
1	5467	Frontage on Trever Oral.
2	7700	Ditto
3	7895	Datto.
	6128	1
9 1	7782	ì
# 1	3370	I
6 1	2100	Gurden
1 2 3 4 5 8 9	3104 3104	Frontage on Trevor Oral
10	6534	Drite,
îĭ	9075	Frontage on Bharatpur Read
12	27821	Ditte
18 14	4203	Playground.
14	2352	
15 15A	2452	Latrines (10 sents)
15A	4161	Cattle shed (for public calile).
16 17 18	2102	feet brone cuttibl'
#4	3180	
10	3217	
19 20 21 22 23 24 26 27 28 29 27 28 29 20 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	8200 6207	1
ai l	2777	Site for vegetable market
99	2396	
23	540	1
24	7710	Intrines (v sents)
26	7024	
26	3182	
27	4500	
28	3040	
29	2550	Site for rehonang municipal sweepers.
31	1200	
82	4446	Cattle shed (for Mumerpal caltle)
33	3320	LAGITHES (AD sente)
34	800 400	Leitrines (B sents)
- I		Datto.
	106090	=3 acres 82 gunthus.

Poons,

1st March 1928

A E MIRAMS,

Consulting Surreyor to the Government of Bombay

APPENDIX No. 6.

IMPROVEMENT OF BAZAGE AREA.

Financial Statement.

Estimated return	Estimated cost of improvements		
	Re.		R
lade of surplus plots of building land at Re. 1 per oft, for 1,00,000 oft deferred for a		Compensation for properties to be acquired	88,000
mean period of 3 years at 6 per cent (assuming that it would take 5 or 6 years before the		Cent of reads	28,180
bjets are quibosed of	83,960	Dreemion of nullss and con-	
Say .	84,000	struction of puers drains	4,000
ļ		Managal lattines	7,700
		Rehousing the Municipal	0,030
		Demanting and reconstructing the Municipal cuttle shed.	10,100
Ì		Garden and tree planting .	600
		Establishment charges on works at 10 per cent	5,153
Total .	84,000	Total .	92,683

Not cost to the Municipality, Rs. 8,883, Say Rs. 9,000.

A. E MIRAMS,

POONA, 1st March 1928. Consulting Surveyor to the Government of Bombay.

APPENDIX No. 7.

IMPROVEMENT OF BAZAGE AREA.

Estimates of Works,		
New Boads	R	
20' Roads, 2470' at Re. 2-8 per foot	6,175	
14' Rouds, 140' at Rs. 2 per foot	250	
40' New diversion 250' at Ra. 5	1,750	
Widening Bharatpur road, from 22' to 30' 575 feet at Ro. 1 .	676	
Total .	8,780	8,780
Improving main Baccar roads.		^
Cost of improving and re-enviacing the main bazzar roads	14,400	14,400
Details-		Teleno,
Removing cricing fagging, 800' x 19 at Bs. 10 per 100 s ft. Re-maloring will bitunescene centrels 25 thick on 6' time concrete 800 at Rs. Ls per feet 11,650 Importments to Branch Roads and junctions 1,550 Tetal 14,600 Diversion of nullas and construction of purces afone Main drain in Klaladi Harr, 1000' at Bs. 2-8 Sanagasa drain 250' at Rs. 1-5 General levelling up Total	draine. Rs. 8,600 376 125 4,000	4,000
Latrines.		
Constructing 35 scats public latrings at Rs 220 per seat	7,700	
Total.	7,700	7,700
Re-housing Municipal Sweepers.	Re.	
Dismontling existing invanitary structure, Rs. 50	60	
Bebrilding 10 two-roomed (10' × 10' + 10' × 7' versudah) tenement, at R. 600 per tenement	6,000	
Total	.6,060	

APPENDIX No. 7.-INTROVENEST OF BAZIAR AREA-contd.

Municipal Cattle Shed.	Rı.	
Dismantling existing cattle shed Rs. 100 lump	100	
Reconstructing cattle shed to accommodate 20 cattle, 2,500 s.ft. at Rs. 4 per s. ft. of plinth	10,000	
	10,100	10,100
Gardens and tree-planting.		
Laying out a garden on the slopes of the main drain and planting palm trees at intervals of 29 Bs. 500 lump	Re. 500	
	600	500
	Total .	61,650
Establishment charges on works at 10 per cent	Re. 5,153 5,153	
		5,163
Total estimated outlay on	works .	58,653

A. E. MIRAMS,

POONA, Consulting Surreyor to the Government of Bombay.

Let March 1923.

ODVERNMENT CENTRAL PRESS

1924

